

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1-9. (Canceled)

10. (Currently Amended) A disk array system, comprising:

a port receiving data from an information processing device;

a first controller ~~controlling~~ transferring of data received by said port;

a memory storing data in accordance with the ~~controlling~~ transferring
performed by said first controller;

a second controller ~~controlling~~ transferring of data stored in said memory;

a plurality of disk drive groups to which data transferred by said second
controller is stored and having a plurality of storage regions in a plurality of disk
drives;

a plurality of logical units being addresses to which data is sent from said
information processing device and corresponding to said storage regions; and

a plurality of resource groups each having a first plurality kinds of resources
among a ~~plurality of~~ said ports, said first controller, said memory, said second
controller, said disk drive groups, ~~or~~ and said logical units; ~~and~~

wherein, in order to change configuration in a first resource group of said resource groups, a first resource in said first resource group is of said resource groups, said first resource being permitted to changed from a first state of relating to a second resource in said first resource group into a second state of relating to a third resource in said first resource group without being permitted to change to a third state of relating to a fourth resource in a second resource group of said resource groups for changing configuration in said first resource group.

11. (Currently Amended) The disk array system according to claim 10, further comprising:

a plurality of information processing device groups sending data to said ports and having said information processing device,

wherein each of said resource groups has a second plurality kinds of resources among said ports, said information processing device groups, said first controller, said memory, said second controller, said disk drive groups, ~~or~~ and said logical units.

12. (Currently Amended) The disk array system according to claim 10, further comprising:

a plurality of physical resources having said ports, said first controller, said memory, said second controller, ~~or~~ and said disk drive groups; and

a plurality of logical resources having said logical units;
wherein said first resource is one of said physical resources, and
wherein said second resource and said third resource are each one of said
logical resources.

13. (Currently Amended) The disk array system according to claim 10, further
~~comprising: wherein, in order to change configuration in said second resource group,~~

~~a fourth resource in a second resource group of said resource groups, said~~
fourth resource ~~being~~ is changed from a ~~third~~fourth state of relating to a fifth resource
in said second resource group into a ~~fourth~~fifth state of relating to a sixth resource in
said second resource group without being permitted to change to a sixth state of
relating to said first resource in said first resource group for changing configuration in
~~said second resource group, and~~

wherein one or more resources in said first resource group are of a different
kind than all of the resources in said second resource group.

14. (Currently Amended) The disk array system according to claim 10,
~~further comprising: wherein, in order to change configuration in said second resource~~
~~group,~~

~~a fourth resource in a second resource group of said resource groups, said~~
fourth resource ~~being~~ is changed from a ~~third~~fourth state of relating to a fifth resource

in said second resource group into a ~~fourth~~fifth state of relating to a sixth resource in said second resource group ~~for changing configuration in said second resource group~~; and

wherein a seventh resource among said ports, said first controller, said memory, said second controller, said disk drive groups, ~~or~~ and said logical units does not belonging to either of said first resource group and said second resource group.

15. (Currently Amended) The disk array system according to claim 10, wherein:

said information processing device displays information of some resources in said first resource group and requests to change said first state into said second state.

16. (Currently Amended) The disk array system according to claim 10, further comprising:

a managing device having information relating to said resource groups; and
a management client coupled to said managing device and displaying information of some resources in said first resource group and requesting to change said first state into said second state.

17. (Currently Amended) The disk array system according to claim 10,
wherein:

said first resource and said second resource are used to transfer data sent
from said information processing device to a first storage region of said storage
regions in said first resource group; and

said first resource and said third resource are used to transfer data sent from
said information processing device to said first storage region or a second storage
region of said storage regions in said first resource group.

18. (Currently Amended) The disk array system according to claim 10,
further comprising:

a plurality of information processing devices sending data to said ports, said
~~and having said~~ information processing device being one of said plurality of
information processing devices;

wherein one of said information processing devices is permitted to access
data in a first storage region of said storage regions in said first resource group and
is not allowed-permitted to access data in a second storage region of said storage
regions in said first resource group, and

wherein another of said information processing devices is permitted to access
data in said second storage region of said storage regions in said first resource

group and not ~~allowed~~permitted to access data in said first storage region of said storage regions in said first resource group.

19. (Currently Amended) A disk array system, comprising:

- a port receiving data from an information processing device;
- a logical unit provided for said information processing device and relating to a storage region;
- a RAID (Redundant Array of Independent Disks) group relating to a plurality of disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device and ~~relating to~~ including said storage region;
- a plurality of logical resources having said port, said logical unit and said RAID group;
- a plurality of physical resources ~~having~~including said disk drives;
- a plurality of resource groups each having one or more said logical resources and one or more said physical resources; and

wherein in order to change configuration in a first resource in a first resource group of said resource groups, said first resource being ~~is permitted to~~ changed from a first state of relating between said first resource and a second resource in said first resource group into a second state of relating between said first resource and a third resource in said first resource group without being permitted to change to a third

state of relating to a fourth resource in a second resource group of said resource groups for changing configuration in said first resource group.

20. (Currently Amended) A disk array system, comprising:
a port receiving data from an information processing device;
a plurality of logical units provided for said information processing device and relating to a plurality of storage regions;
a plurality of disk drives having said storage regions;
a plurality of ECC (Error Check and Correct) groups relating to said disk drives and each of said ECC groups storing a plurality of data and a parity data related to data sent from said information processing device;
a first plurality of resources having ~~a plurality of~~ said ports, said logical units, said disk drives and said ECC groups;
a second plurality of resources having ~~a plurality of types of~~ resources in said first plurality of resources; and
a plurality of resource groups each having said second plurality of resources;
wherein each of said resource groups, independently of each other, ~~can~~ is permitted to change a relationship between said second plurality of resources in each of said resource groups.

21. (Currently Amended) A disk array system, comprising:

a port receiving data sent from an information processing device;
a logical unit provided for said information processing device to store data and relating to a storage region;
a plurality of disk drives having said storage region;
a RAID (Redundant Array of Independent Disks) group relating to said disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device; and
a plurality of resource groups each having a plurality types of resources among said port, said logical unit, said disk drives and said RAID group and each of said resource groups being logically partitioned by logical partitions;
wherein each of said resource groups, independently of each other, ~~can~~ is permitted to change a relationship between said plurality types of resources in said each of said resource groups.

22. (Currently Amended) A disk array system, comprising:
a port receiving data sent from an information processing device;
a first controller ~~controlling to transferring~~ transferring data received by said port;
a memory storing data in accordance with controlling by said first controller;
a second controller ~~controlling to transferring~~ transferring data stored in said memory;
a disk drive group storing data transferred by said second controller and having a plurality of disk drives;

a logical unit number being an address to which data is sent ~~data~~ from said information processing device and corresponding to a storage region in said disk drive group;

a plurality of resource groups each having said port, a part or all of said first controller, a part or all of said memory, a part or all of said second controller, said disk drive group, and said logical unit number; and

wherein, in order to change configuration in said first resource group of said resource groups, a first resource in a said first resource group of said resource groups, said first resource being is permitted to changed from a first state of relating to a second resource in said first resource group into a second state of relating to a third resource in said first resource group and being not permitted to change from said first state into a third state of relating to a fourth resource in a second resource group of said resource groups ~~for changing configuration in said first resource group.~~

23. (Currently Amended) A disk array system, comprising:

a port receiving data sent from an information processing device;

a logical unit number provided for said information processing device and relating to said port;

a RAID (Redundant Array of Independent Disks) group relating to a plurality of disk drives, said disk drives storing a plurality of data and a parity data related to data sent from said information processing device to said port;

a plurality of logical resources having said port, said logical unit number and said RAID group;

a plurality of physical resources having said disk drives;

a plurality of resource groups each having one or more of said logical resources and one or more of said physical resources;

wherein, in response to a request for changing configuration in a first resource group of said resource groups, ~~receiving a request of changing configuration in said first resource group so that~~ a first resource in said first resource group can be permitted to changed from a first state of relating between said first resource and a second resource in said first resource group into a second state of relating between said first resource and a third resource in said first resource group and can be not permitted to change said first state into a third state of relating between said first resource and a fourth resource in a second resource group of said second resource groups.

24. (Currently Amended) A disk array system, comprising:
a port receiving data from an information processing device;
a controller ~~controlling to~~ transferring data received by said port;
a memory storing information which is used to control;
a plurality of disk drives storing data transferred and having a plurality of storage regions; and

a plurality of resource groups each being mutually partitioned by a logical partition and each having a plurality of said ports, a part of logical parts corresponding to said controller, a part of logical parts corresponding to said memory, and said disk drives;

wherein each of said resource groups can be related to one or more of said information processing devices,

wherein a first information processing device related to a first resource group of said resource groups can access resources in said first resource group and cannot access resources in a second resource group of said resource groups.

25. (Currently Amended) A disk array system, comprising:
a port receiving data from an information processing device;
a controller ~~controlling~~ transferring data received by said port;
a memory storing data received by said port;
a plurality of disk drives storing data transferred and having a plurality of storage regions; and

a plurality of resource groups each being mutually partitioned by a logical partition and each having a plurality of said ports, a part of logical parts corresponding to said controller, a part of logical parts corresponding to said memory, and said disk drives;

wherein each of said resource groups can be related to one or more of said information processing devices,

wherein a first information processing device related to a first resource group of said resource groups can be permitted to access resources in said first resource group and cannot be not permitted to access resources in a second resource group of said resource groups.